



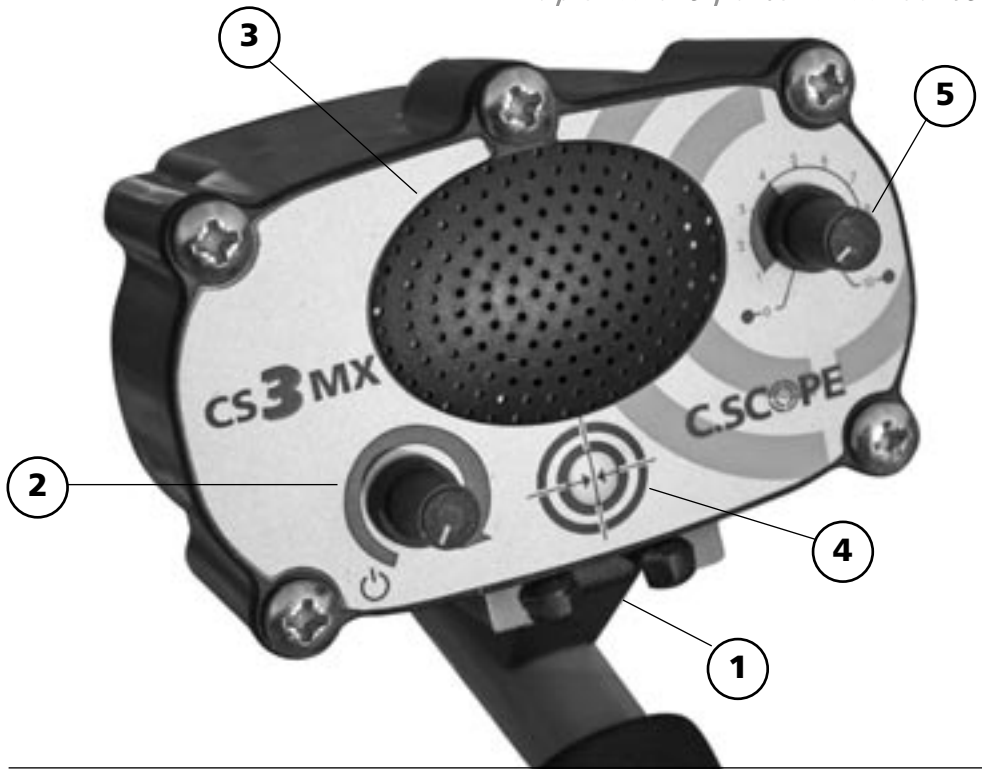
C.SCOPE

CS3MX

operating instructions

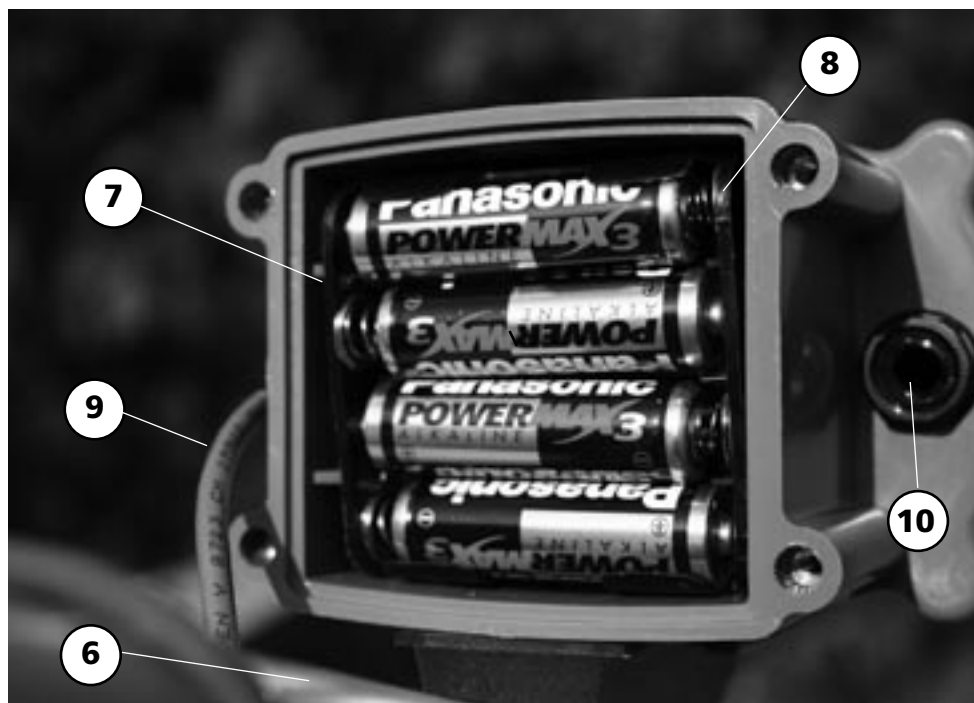
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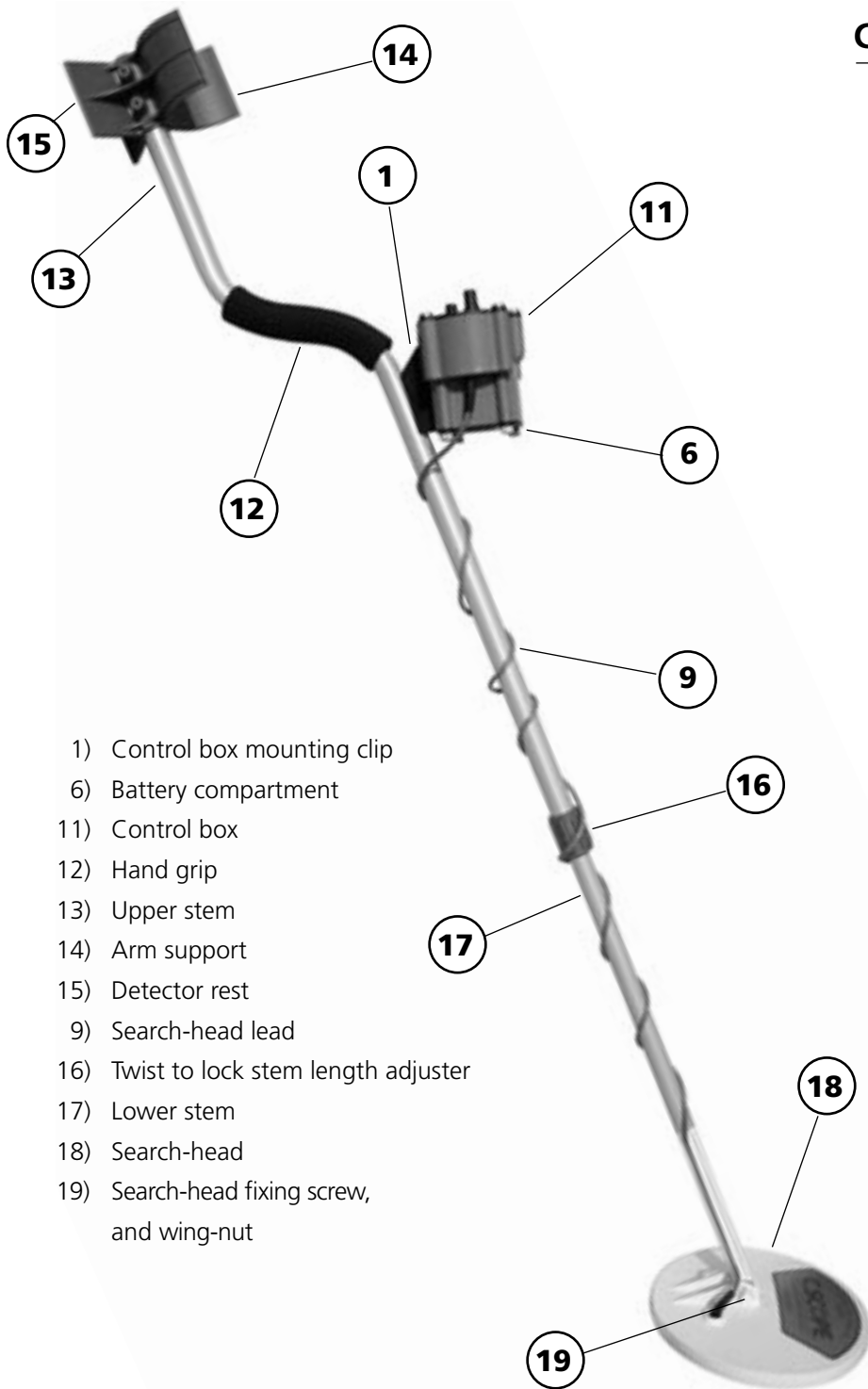
- 1) Control box mounting clip
- 2) On/Off/sensitivity control
- 3) Loudspeaker
- 4) Pin-point push button
- 5) All-metal/discrimination level control

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- 6) Battery compartment cover
- 7) 8 x AA battery holder
- 8) Battery contacts
- 9) Search-head lead
- 10) Headphone socket

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CS3MX

overview

The CS3MX is a high performance metal detector operating on the 'MOTION' principle. This means that the search-head must be kept moving at a steady sweep speed to achieve optimum performance.

There is a pin-point function which switches off the motion effect so that the search-head can be brought to rest over the target signal. The discrimination system is capable of eliminating signals from a variety of metals which are likely to be valueless.

The CS3MX is designed to offer extremely high performance whilst being easy to operate. We wish you good hunting and a great hobby with the excellent CS3MX!

Follow these simple steps to start using the CS3MX within minutes . . .

- 1) Assemble the CS3MX by inserting the lower stem into the upper stem.
- 2) Rotate the lower stem so that the search-head cable is coiled around the stem as shown in the photograph.
- 3) Twist the locking device so that the stem is locked into position at the required length.
- 4) Remove the battery compartment cover by loosening the four retaining screws.
- 5) Fit 8 x AA batteries to the battery holder being careful to observe polarity and good contact.
- 6) Rotate the discrimination control to the green area on the scale.
- 7) Switch on and rotate the sensitivity control to the lower part of the green area on the scale.
- 8) **START DETECTING** . . . metal targets give a sharp audio signal from the loudspeaker . . . signals from small pieces of iron rubbish are ignored . . . pressing the pin-point button means you can stop swinging the search-head from side to side and identify the exact position of the target

the controls and what they do

- 1) **Control box mounting clip.** For ultimate lightweight metal detecting the CS3MX control box can be removed and fitted to a belt around the body. This leaves only the search-head on the stem which reduces fatigue on the arm.
- 2) **On/off/sensitivity.** Rotary control switches the detector on/off and adjusts the sensitivity. The area on the scale around the control marked in green is the setting recommended for most ground conditions. Ground containing mineralisation and some beach situations may cause instability or false signals requiring a reduction of the sensitivity level.
- 3) **Loudspeaker** (and battery condition indicator). The presence of metal is indicated by the increasing intensity of the loudspeaker tone. A distinct step change in the pitch of the audio signal indicates that the batteries should be changed.

- 4) Pin-point.** The 'motion' aspect of the CS3MX is switched off whilst the pin-point button is depressed. In pin-point mode the search-head can be held still to determine the precise target position. Pin-point mode operates in 'All Metal', ie. whatever level of discrimination you have preset will be switched off while the pin-point button is depressed. This is a useful facility which allows you to trace around the edges of a signal to identify large pieces of iron. (Note: very large pieces of iron, such as discarded he detector is set to high discrimination settings).
- 5) Discrimination.** Set to '0' there is no discrimination, ie all metals are detected. Set within the green area (1-4) on the scale signals from most small iron rubbish are ignored, ie. there is no audio signal. At higher settings (4-10) in the red area on the scale more classes of metal likely to be rubbish are ignored. (see '*Notes on Sensitivity, Ground Effect and Discrimination*').

assembling the CM3MX

The stem height adjuster should be slackened to allow the lower stem to enter the upper stem section. The search-head lead may then be wound around the stem as shown in the photograph. A search-head lead which is not well secured to the stem could move about causing false signals. Cable ties or tape may be used to hold the lead in position. There are slots in the lower stem plastic section into which the lead can be fitted. When the search-head lead is fitted correctly, the stem adjusting device can be tightened at a height suitable for the user.



Adjust the position of the search-head so that it is parallel to the ground when the user is in a normal standing position. Tighten the wing-nut on the search-head retaining screw. Do not over-tighten. Friction of the head lugs against the neoprene washers keeps the search-head in position. Excessive pressure on these parts should not be necessary.

(If some form of lubricant should ever find its way onto these washers it will be necessary to disassemble the parts, wash and dry them before careful reassembly).



belt mounting



Squeeze the control box retaining clips together using your thumbs as shown in the photograph.

The control box will now slide towards you free of the control box mounting clip.

belt mounting

The control box can be fitted to your belt using the clip provided. In belt mounted use, be sure to wind the search-head cable up the stem at least to the length adjuster and secure it with tape or cable tie. This is because the search-head is sensitive to metal objects above to some extent and the lead will be detected if it is left free to move.



Undo the 4 battery compartment retaining screws and take out the battery holder. Fit 8 good quality AA type batteries into the compartments of the battery holder. Observe polarity of the batteries (*the spring contact goes against the flat, negative end of the battery*). Roll the batteries in the holder to ensure good contact and replace into the battery compartment with the contacts on



the holder lining up with the contacts in the compartment.

Replace the battery compartment cover being very careful to avoid cross threading the screws.

Battery condition is monitored continuously on the CS3MX. Low battery condition is indicated by a step change in the signal tone to a higher pitch.

detecting with the CS3MX

Successful treasure hunting starts with a well researched site. Sweep the detector head from side to side with a steady relaxed motion. Keep the search-head parallel and as close as possible to the ground right across the arc of the sweep. The use of a search-head cover protects the head from abrasion damage caused by friction with the ground. Search your chosen site carefully by moving forward only the width of the search-head at each sweep. Move up and down the search area in lines about a metre apart so that there is plenty of overlap in the ground you have covered.

Search with the sensitivity set as high as possible according to the ground conditions. On the majority of inland sites the recommended sensitivity setting (green area on the scale) will give the best results. Some types of ground may give rise to false signals and the sensitivity level should be reduced to a point where operation of the detector becomes stable. Some detector users prefer to set the sensitivity control at a point where there is no background tone, sometimes called '*silent search*'. (*Sensitivity control set around the start of the green zone*). With the detector set like this it is more noticeable when a target signal occurs. If the detector is set at maximum sensitivity (*Sensitivity control set at the end of the green zone*) there will be an audio tone constantly in the background and a metal target will be registered by an increase in the intensity of that tone.

We recommend searching with a low level of discrimination (green area on the scale 1-4). At this setting the CS3MX will not react to small pieces of iron but will give a positive audio tone on other metal targets. Increasing the discrimination level will eliminate signals from a wider range of metal objects which are likely to be rubbish. (*See Notes on Sensitivity, Ground Effect and Discrimination*).

When the detector gives a signal, move the search-head to the approximate area where the signal was heard, press the pin-point button (using your thumb is best) and move the search-head carefully around. The strongest signal will occur directly below the centre of the search-head. Dig a neat hole by cutting around the signal position with a sharp edged trowel and remove a divot of

earth which might now contain the metal object. Run the detector over the area again in pin-point mode to see if the metal object is still in the hole or in the piece of earth which you have just removed. Dig some more and sift through the earth until you find what you are looking for. Fill in the hole before moving on.

The use of headphones will increase battery life and make it easier to discern faint signals.

Follow the 'Country Code'. Do not trespass. Do not touch anything you suspect might be live ammunition - inform the police. Do not take your detector on any scheduled historic site. If you find anything which looks like it could have historical significance, report it to your local museum. Acquaint yourself with any laws relating to the use of metal detectors if you want to go detecting in countries other than the UK.

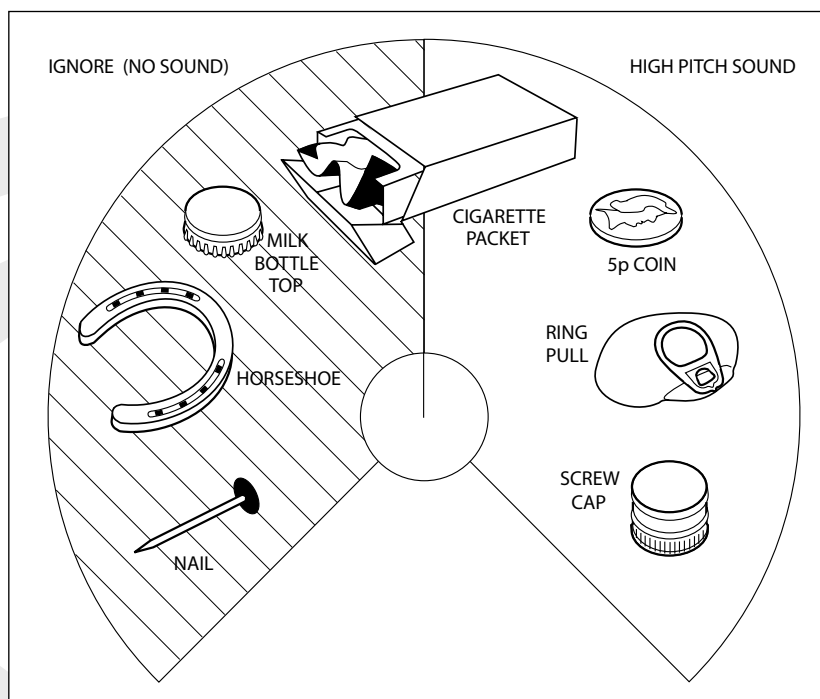
- | | |
|--|--|
| 1 Enjoy the countryside and respect its life and work. | 7 Leave livestock, crops and machinery alone. |
| 2 Fasten all gates. | 8 Take your litter home.. |
| 3 Guard against all risk of fire. | 9 Help to keep all water clean. |
| 4 Keep your dogs under close control. | 10 Protect wildlife, plants and trees. |
| 5 Keep to public paths across farmland. | 11 Take special care on country roads. |
| 6 Use gates and stiles to cross fences, hedges and walls. | 12 Make no unnecessary noise. |

sensitivity, ground effect & discrimination

You will be able to get more performance out of your detector if you understand the relationship between three aspects of detector operation - sensitivity, ground effect and discrimination. If you increase the power of a metal detector too much the ground itself is detected and false signals make the detector difficult to use. The 'motion' electronic system of the CS3MX will ignore many ground effect signals but some types of ground, notably waterlogged or containing salts or mineralisation require the detector to operate on reduced sensitivity.

The CS3MX can be set to ignore signals from certain categories of metal target. Small iron objects in the ground are a problem on many farmland sites. These signals can be ignored by setting the discriminate control to about number '2', within the green area on the discriminate scale. As the control is turned clockwise the signals from more types of metal likely to be worthless can be

Effect of discriminate control position



eliminated. However, the discriminate control must be used with care because some objects which could be valuable have similar electrical characteristics to rubbish items as far as the detector can tell. Higher levels of discrimination also have the effect of reducing the depth of detection. For these reasons it is best to keep the discrimination setting as low as possible.

detector care

The CS3MX is a robust design, however the control box should be treated with similar care as any electronic product. Dry off any water splashes immediately. The search-head may be immersed in water. Stem and search-head parts should be cleaned and dried at the end of a day's detecting. Do not use solvents. If the detector has been used on a beach it will be necessary to wash sand and salt residue off the stem adjustment mechanism and the search-head retaining parts using tap water. Remove batteries if the detector is going to be stored for any length of time. Do not open the control box front panel. There are no user serviceable parts inside and you may invalidate your warranty.

warranty & service

Your CS3MX is guaranteed free of manufacturing defects as confirmed in our written warranty document. Contact us if you have any concerns about the operation of your detector.

The C.SCOPE Customer Service Team really know about metal detectors and are always ready with good advice and rapid after-sales-service.

C.SCOPE is an ISO 9001 Quality Manufacturer.
This equipment conforms to the EMC directive 89/336/EEC.
System performance may be impaired by unusually strong electromagnetic fields.



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